

Application No.: 08/487,312

Docket No.: 220002016004

CLAIM AMENDMENTS

1-18. (canceled)

19. (currently amended): Bovine growth hormone produced by a method which comprises culturing *E. coli* cells which contain a recombinant DNA molecule, which DNA molecule comprises a nucleotide sequence encoding bovine growth hormone having the ala shown at position 1 or the phe shown at position 2 in Figure 1, optionally preceded by a methionine residue, at its N-terminus ~~comprising the amino acid sequence at positions 2-191 of Figure 1 or an allelic variant thereof~~, said encoding nucleotide sequence contained in an expression system effective in producing said encoded bovine growth hormone in a recombinant host cell said *E. coli* cells.

said culturing under conditions wherein the encoding nucleotide sequence is expressed to produce said bovine growth hormone; and

recovering the bovine growth hormone from the culture.

20. (previously presented): The bovine growth hormone of claim 19 which comprises the amino acid sequence at positions 2-191 of Figure 1.

21. (canceled)

22. (previously presented): The bovine growth hormone of claim 19 which is in purified and isolated form.

23. (previously presented): The bovine growth hormone of claim 19 which comprises the amino acid sequence at positions 1-191 of Figure 1.

24. (canceled)

25. (currently amended): The bovine growth hormone of claim 24 wherein the amino acid sequence at positions 2-191 of Figure 1 is preceded by a methionine residue.

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~~26~~. (currently amended): The bovine growth hormone of ~~claim 24~~ ⁶ claim 23 wherein the amino acid sequence at positions 1-191 of Figure 1 is preceded by a methionine residue.

27-28. (canceled)

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~~29~~. (currently amended): The bovine growth hormone of ~~claim 28~~ ² claim 20 wherein said DNA molecule generates an RNA encoding the amino acid sequence at positions 2-191 of Figure 1 said encoding sequence preceded by the codon AUG.

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~~30~~. (currently amended): The bovine growth hormone of ~~claim 28~~ ⁶ claim 23 wherein said DNA molecule generates an RNA encoding the amino acid sequence at positions 1-191 of Figure 1 said encoding sequence preceded by the codon AUG.

31-40. (canceled)

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~~41~~. (new): The bovine growth hormone of ~~claim 19~~ ¹ wherein said ala or said phe is preceded by a methionine residue.

¹⁰
~~42~~. (new): The bovine growth hormone of ~~claim 19~~ ¹ wherein said DNA molecule generates an RNA encoding the amino acid sequence of bovine growth hormone having the ala shown at position 1 or the phe shown at position 2 in Figure 1 at the N-terminus, said encoding sequence preceded by the codon AUG.

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1-18. (canceled)

19. (currently amended): Bovine growth hormone produced by a method which comprises culturing *E. coli* cells which contain a recombinant DNA molecule, which DNA molecule comprises a nucleotide sequence encoding bovine growth hormone having the ala shown at position 1 or the phe shown at position 2 in Figure 1, optionally preceded by a methionine residue, at its N-terminus ~~comprising the amino acid sequence at positions 2-191 of Figure 1 or an allelic variant thereof~~, said encoding nucleotide sequence contained in an expression system effective in producing said encoded bovine growth hormone in ~~a recombinant host cell~~ said *E. coli* cells,

said culturing under conditions wherein the encoding nucleotide sequence is expressed to produce said bovine growth hormone; and

recovering the bovine growth hormone from the culture.

20. (previously presented): The bovine growth hormone of claim 19 which comprises the amino acid sequence at positions 2-191 of Figure 1.

21. (canceled)

22. (previously presented): The bovine growth hormone of claim 19 which is in purified and isolated form.

23. (previously presented): The bovine growth hormone of claim 19 which comprises the amino acid sequence at positions 1-191 of Figure 1.

24. (canceled)

25. (currently amended): The bovine growth hormone of ~~claim 24~~ claim 20 wherein the amino acid sequence at positions 2-191 of Figure 1 is preceded by a methionine residue.

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26. (currently amended): The bovine growth hormone of ~~claim 24~~ claim 23 wherein the amino acid sequence at positions 1-191 of Figure 1 is preceded by a methionine residue.

27-28. (canceled)

29. (currently amended): The bovine growth hormone of ~~claim 28~~ claim 20 wherein said DNA molecule generates an RNA encoding the amino acid sequence at positions 2-191 of Figure 1 said encoding sequence preceded by the codon AUG.

30. (currently amended): The bovine growth hormone of ~~claim 28~~ claim 23 wherein said DNA molecule generates an RNA encoding the amino acid sequence at positions 1-191 of Figure 1 said encoding sequence preceded by the codon AUG.

31-40. (canceled)

41. (new): The bovine growth hormone of claim 19 wherein said ala or said phe is preceded by a methionine residue.

42. (new): The bovine growth hormone of claim 19 wherein said DNA molecule generates an RNA encoding the amino acid sequence of bovine growth hormone having the ala shown at position 1 or the phe shown at position 2 in Figure 1 at the N-terminus, said encoding sequence preceded by the codon AUG.